

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P485901

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-2LO-50-120-EDD**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P485901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-A125-LD4-2LO-50-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

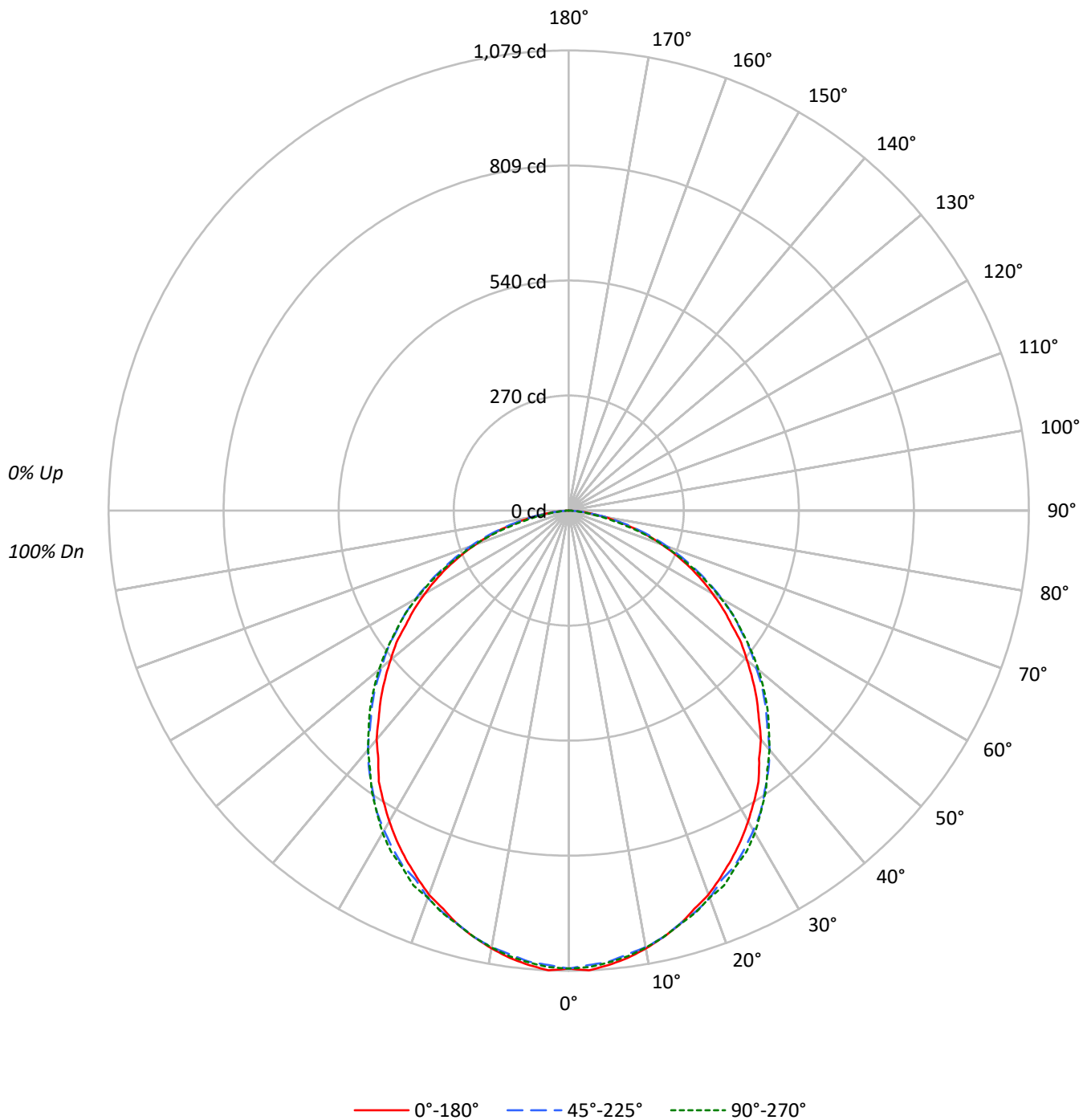
Lumens per Lamp: N/A
Luminaire Lumens: 2758.2 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	90		91	89	87
2	100	92	85	79	97	90	84	79		86	81	77		83	79	75		80	76	73
3	91	81	73	66	89	79	72	66		76	70	65		73	68	64		71	66	62
4	83	72	63	57	81	70	62	56		68	61	55		66	59	55		63	58	54
5	77	64	55	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		53	47	42		52	46	41
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	34		45	38	33		44	38	33
9	57	44	36	31	56	44	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	53	40	33	28		39	32	28		38	32	27		37	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2890	2890	2890
5°	2890	2869	2874
10°	2849	2840	2843
15°	2800	2797	2798
20°	2744	2767	2766
25°	2679	2732	2740
30°	2614	2691	2713
35°	2550	2633	2644
40°	2462	2574	2572
45°	2373	2485	2509
50°	2283	2401	2433
55°	2187	2317	2330
60°	2095	2234	2218
65°	1985	2097	2056
70°	1829	1926	1839
75°	1618	1684	1471
80°	1302	1319	1027
85°	852	815	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	3.7
10°-20°	283.8	10.3
20°-30°	422.5	15.3
30°-40°	497.4	18.0
40°-50°	498.7	18.1
50°-60°	437.3	15.9
60°-70°	319.8	11.6
70°-80°	164.8	6.0
80°-90°	33.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	807.3	29.3
0°-40°	1304.6	47.3
0°-60°	2240.6	81.2
0°-90°	2758.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1070	1063	1062	1069	1064	101
15°	1005	1007	1004	1010	1004	283
25°	902	906	920	933	923	416
35°	776	780	801	810	805	483
45°	624	626	653	661	659	481
55°	466	477	494	501	497	418
65°	312	319	329	328	323	308
75°	156	157	162	151	142	165
85°	28	27	26	21	19	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.8	1073.8	1073.8	1073.8	1073.8
2.5°	1079.1	1073.8	1066.8	1072.7	1071.5
5°	1069.7	1062.7	1062.1	1069.1	1063.8
7.5°	1058.0	1056.8	1049.8	1057.4	1054.5
10°	1042.7	1041.5	1039.2	1044.5	1040.4
12.5°	1024.5	1023.3	1024.5	1027.4	1024.5
15°	1005.1	1006.9	1004.0	1010.4	1004.5
17.5°	979.3	981.1	986.9	989.3	988.7
20°	958.2	959.3	966.4	975.8	965.8
22.5°	930.6	933.5	937.0	954.1	951.7
25°	902.4	906.5	920.0	932.9	922.9
27.5°	873.0	877.1	893.6	903.0	901.8
30°	841.3	845.4	866.0	878.9	873.0
32.5°	808.5	815.5	837.8	849.0	837.8
35°	776.2	779.7	801.4	810.2	804.9
37.5°	733.3	746.8	768.5	774.4	765.0
40°	701.0	701.6	732.7	732.7	732.1
42.5°	659.3	668.7	689.3	700.4	694.6
45°	623.5	626.4	652.9	661.1	659.3
47.5°	584.2	595.9	615.3	624.7	620.0
50°	545.4	553.6	573.6	585.9	581.2
52.5°	509.6	516.1	536.6	543.7	539.0
55°	466.2	476.7	493.8	500.8	496.7
57.5°	428.6	436.2	457.4	459.7	457.4
60°	389.3	398.1	415.1	416.9	412.2
62.5°	351.7	357.6	372.8	373.4	368.1
65°	311.8	318.8	329.4	328.2	322.9
67.5°	272.4	277.1	287.1	283.0	277.1
70°	232.5	236.6	244.8	239.0	233.7
72.5°	193.7	196.7	203.7	194.9	188.5
75°	155.6	156.8	162.0	150.9	141.5
77.5°	118.0	119.2	122.1	111.0	100.4
80°	84.0	84.0	85.1	73.4	66.3
82.5°	52.8	52.8	52.3	43.4	39.3
85°	27.6	27.0	26.4	21.1	19.4
87.5°	10.0	10.0	8.2	7.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)